

Maine Department of Transportation Approved Products List
CONCRETE PATCHING MATERIALS
Meeting Standard Specification Revision of December 2002, Section 518

Product Name Manufacturer Contact	Description	Horizontal	Vertical	Overhead	Min. Temp. (°F)	Compressive Strength @ 7 days (psi)	Minimum Depth Neat	Maximum Depth Extended w/Stone	NTPEP Testing Cycle
Blendcrete <i>Pre-Blend Products, Inc. (215) 295-6004</i>	1 component, polymer-modified, cementitious, corrosion inhibitor	•			40	5845	1/2"	> 2"	
Bonsal Rapid Set Patch VR <i>Bonsal American (800) 738-1621</i>	1 component, fast setting, high early strength, open to traffic in 2 hours	•			40	> 6000	1/2"	8"	
Bonsal VO Repair Mortar <i>Bonsal American (800) 738-1621</i>	1 component, hydraulic cement mortar, corrosion inhibitor		•	•	40	4000	OH: 1" lifts, VERT: to 3/4" lifts		
Commercial Grade FastSet Non-Shrink Grout <i>Quikrete (800) 282-5828</i>	1 component, high early strength, low-sag	•			40	9150 ⁽¹⁾	1/2"	> 2"	2000
CR701CI STO Trowel Grade Mortar W/CI <i>Sto Corp. (800) 221-2397</i>	1 component, cementitious, corrosion inhibitor, polymer-modified	•	•		45	7000	1/4"	> 2" horiz.	
CR702CI STO Overhead Mortar with CI <i>Sto Corp. (800) 221-2397</i>	1 component, corrosion inhibitor, polymer-modified, cementitious		•	•	45	5500	1/4"		
CR730 STO Flowable Mortar <i>Sto Corp. (800) 221-2397</i>	flowable, pumpable, acrylic polymer-modified, cementitious, 1 component	•			45	5000	1/2"	> 2"	
Day-Chem Perma Patch <i>Dayton Superior Corp. (877) 416-3439</i>	1 component, fiber reinforced, non-metallic, silica fume enhanced	•			10	5000	max 2"	> 2"	1998
D.O.T. Patch HD <i>Symons Corp. (847) 298-3200</i>	fast-setting, polymer-modified, fiber-reinforced		•	•	40	7370	1/2"	> 2"	
Emaco S88 CI <i>Degussa Construction Chemicals (800) 496-6067</i>	1 component, rheoplastic, fiber-reinforced, corrosion inhibitor		•	•	40	8000	3/8"		
Emaco T415 <i>Degussa Construction Chemicals (800) 496-6067</i>	1 component, high-performance	•			20	8000 ⁽¹⁾	1/2"	> 1"	2000
Emaco T430 <i>Degussa Construction Chemicals (800) 496-6067</i>	1 component, high-performance	•			20	7800	1/2"	> 1"	
Express Repair <i>Tamms Industries (860) 573-8484</i>	1 component, cementitious, corrosion inhibitor, rapid strength gain	•			35	8850 ⁽¹⁾	1/2"	1-1/2" lifts	2001
Fastcrete <i>Silpro Corp. (800) 343-1501</i>	1 component, cementitious, polymer-modified, fiber-reinforced	•			50	> 5000	1/8"	3"	
Fast Patch 928 <i>Burke by Edoco (877) 416-3439</i>	1 component, cementitious, fast-setting, high compressive strength	•			32	6030 ⁽¹⁾	1"	≥ 2"	2001
Futura-15 <i>W.R. Meadows of PA (717) 792-2627</i>	1 component, chloride free, low permeability, very rapid-hardening	•			20	8500	1/2"	> 2"	
HD-25 <i>Dayton Superior Corp. (877) 416-3439</i>	1 component, polymer-modified, accelerators		•	•	40	4900	max 2"	> 2"	
HD-50 <i>Dayton Superior Corp. (877) 416-3439</i>	1 component, fiber reinforced, latex modified, non-metallic, chloride free	•			10†	7370	max 2"	> 2"	1998
Highway DB Retrofit Mortar <i>American Highway Technology (888) 745-3751</i>	1 component, high-early strength, freeze-thaw resistant	•			40	7570 ⁽¹⁾	1/2"	> 2"	2000
Highway Patch <i>Five Star Products, Inc. (203) 336-7900</i>	1 component, hydraulic cement, resistant to oils-gas-salts	•			33	7000	1"	> 2"	2001

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Pave Patch 3000 <i>Conspec (800) 348-7351</i>	1 component, cementitious, resists freeze-thaw, high compressive strength	•			32	7390 ⁽¹⁾	1"		1998
Rapid Set Concrete Mix <i>CTS Cement Mfg. Corp. (800) 929-3030</i>	1 component, hydraulic cement, aggregate, non-metallic, no chlorides	•			35	5380 ⁽¹⁾	> 2"		2002
Rapid Set DOT Repair Mortar <i>CTS Cement Mfg. Corp. (800) 929-3030</i>	1 component, air-entrained specialty mortar, no chlorides added	•	•	•	5	8550 ⁽¹⁾	max 3/4"	> 3/4"	1999
SikaQuick 2500 <i>Sika Corporation (800) 933-7452</i>	1 component, early strength, cementitious	•			45	5800 ⁽¹⁾	1/4"	> 1"	2002
Sikatop 121 Plus <i>Sika Corporation (800) 933-7452</i>	2 component, polymer-modified, corrosion inhibitor	•			45	5000	max 1/6"		
Sikatop 122 Plus <i>Sika Corporation (800) 933-7452</i>	2 component, polymer-modified, corrosion inhibitor	•	•		45	5500	1/8"	4"	
Sikatop 123 Plus <i>Sika Corporation (800) 933-7452</i>	2 component, polymer-modified, cementitious, corrosion inhibitor		•	•	45	5050 ⁽¹⁾	1/8"		2002
Structural Concrete <i>Five Star Products, Inc. (203) 336-7900</i>	1 component, high early strength, low chloride permeability	•			33	7000	1/4"		
Structural Concrete V/O <i>Five Star Products, Inc. (203) 336-7900</i>	1 component, low chloride permeability		•	•	33	4000	1/4"		
Tamms Form and Pour Mortar <i>Tamms Industries (860) 573-8484</i>	1 component, flowable, shrinkage compensated concrete	•			35	6500	3/4"	> 3"	
Tamms Spray Mortar <i>Tamms Industries (860) 573-8484</i>	1 component, sprayable, silica fume enhanced, corrosion inhibitor	•	•	•	40	6200	3/8"	2"	
ThoRoc 10-60 Rapid Mortar <i>Thoroc division of ChemRex (800) 433-9517</i>	1 component, shrinkage-compensated, very rapid-setting, cementitious mortar.	•			45	> 6500	1/2"	> 2"	
ThoRoc SP20 Spray Mortar <i>Thoroc division of ChemRex (800) 433-9517</i>	shrinkage-compensated, microsilica-enhanced, wet-spray mortar.	•	•	•	45	6000	3/8"		
Vertical Patch <i>Five Star Products, Inc. (203) 336-7900</i>	1 component, hydraulic cement, chloride resistant		•	•	45	> 3000	1/4"		
Verticoat Supreme <i>Euclid Chemical Co. (978) 502-9192</i>	1 component, microsilica and latex modified, non-sag		•	•	45	5500	1/4"		
VO Patch <i>Silpro Corp. (800) 343-1501</i>	1 component, polymer-modified, trowel applied.		•	•	50	4000	1/8"		
NON-CEMENTITIOUS CONCRETE PATCHING MATERIALS									
Eucospeed MP (non-cementitious) <i>Euclid Chemical Co. (978) 502-9192</i>	1 component, magnesium phosphate-based , concrete repair material	•			0 (80 max)	4060 ⁽¹⁾	1/2"	8"	1998
Set-45 (non-cementitious) <i>Degussa Construction Chemicals (800) 496-6067</i>	1 component, magnesium phosphate-based , repair & anchoring material	•			20		1/2"		2001
TechCrete R (non-cementitious) <i>Crafco, Inc. (800) 528-8242</i>	flexible, hot-applied, polymer-modified resin	•			40		max 3/4"		
TechCrete TBR (non-cementitious) <i>Crafco, Inc. (800) 528-8242</i>	flexible, hot-applied, polymer-modified resin	•			40		max 8"		

NOTE: Before using any non-cementitious product on a concrete bridge deck that may be overlaid with an epoxy surfacing system, check with manufacturer for any possible future de-bonding issues.

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† Provided cold weather instructions are followed.

‡ These products can only be used on projects with prior approval from the Product Approval Committee. After 2 years of satisfactory performance in the field, these products will be added to the prequalified list for patching materials. Contact Doug Gayne at (207) 624-3268 for specific questions on the use of products listed above.

⁽¹⁾ Neat, as tested by NTPEP.

NOTE: Whenever possible, the minimum 7 day compressive strength of the patching material should be equal to or greater than the compressive strength of the substrate, if known. Consult the latest NTPEP Report for 7 day strengths of patching material if in doubt. Check with manufacturers for information on extending materials with aggregate.

Sales Representatives seeking approval of a new product should submit their product's Materials Technical Data Sheet, Instructions for Installation, Material Safety Data Sheet, and a completed copy of the MDOT Preliminary Information for Product Evaluation Form. Please view Rapid Set Patching Material Prequalification Criteria on the Approved Products List home page for acceptance criteria.

NTPEP is the National Transportation Product Evaluation Program, a part of AASHTO. NTPEP regularly evaluates the performance of patching materials that have been voluntarily submitted by manufacturers and then publishes those test results to member Departments as an aid in product selection. Manufacturers/vendors are encouraged to contact NTPEP to get more information on how they can submit their products, and positive test results may be a requirement for admission to the Approved Products List in the future. For more information visit NTPEP on the web at: www.ntpep.org

Users of these products are encouraged to fill-out and submit a Product Evaluation Report Form. Please take a moment to fill out the form and let us know what you think of new or previously approved products that you have used on a project. The Research Division will monitor how products perform over time. If an existing product, it may either reinforce its place on the Approved Products List or precipitate its removal...

We need and appreciate your feedback to help make this program effective!